Ana M Briones

List of Publications by Year
in descending order

94 papers	4,922 citations	70961 41 h-index	98622 67 g-index
94 all docs	94 docs citations	94 times ranked	6765 citing authors

#	Article	IF	Citations
1	Reactive oxygen species and vascular biology: implications in human hypertension. Hypertension Research, 2011, 34, 5-14.	1.5	371
2	Adipocytes Produce Aldosterone Through Calcineurin-Dependent Signaling Pathways. Hypertension, 2012, 59, 1069-1078.	1.3	292
3	Oxidative Stress and Hypertension: Current Concepts. Current Hypertension Reports, 2010, 12, 135-142.	1.5	288
4	Oxidative Stress and Human Hypertension: Vascular Mechanisms, Biomarkers, and Novel Therapies. Canadian Journal of Cardiology, 2015, 31, 631-641.	0.8	257
5	Nitric oxide mediates aortic disease in mice deficient in the metalloprotease Adamts1 and in a mouse model of Marfan syndrome. Nature Medicine, 2017, 23, 200-212.	15.2	134
6	Reciprocal Relationship Between Reactive Oxygen Species and Cyclooxygenase-2 and Vascular Dysfunction in Hypertension. Antioxidants and Redox Signaling, 2013, 18, 51-65.	2.5	127
7	Role of Elastin in Spontaneously Hypertensive Rat Small Mesenteric Artery Remodelling. Journal of Physiology, 2003, 552, 185-195.	1.3	122
8	Aerobic exercise reduces oxidative stress and improves vascular changes of small mesenteric and coronary arteries in hypertension. British Journal of Pharmacology, 2013, 168, 686-703.	2.7	119
9	NADPH oxidases and vascular remodeling in cardiovascular diseases. Pharmacological Research, 2016, 114, 110-120.	3.1	110
10	Atorvastatin Prevents Angiotensin IIâ€"Induced Vascular Remodeling and Oxidative Stress. Hypertension, 2009, 54, 142-149.	1.3	104
11	NOX Isoforms and Reactive Oxygen Species in Vascular Health. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2011, 11, 27-35.	3.4	103
12	Lysyl Oxidase Induces Vascular Oxidative Stress and Contributes to Arterial Stiffness and Abnormal Elastin Structure in Hypertension: Role of p38MAPK. Antioxidants and Redox Signaling, 2017, 27, 379-397.	2.5	91
13	Branchedâ€chain amino acids promote endothelial dysfunction through increased reactive oxygen species generation and inflammation. Journal of Cellular and Molecular Medicine, 2018, 22, 4948-4962.	1.6	89
14	Differential regulation of Nox1, Nox2 and Nox4 in vascular smooth muscle cells from WKY and SHR. Journal of the American Society of Hypertension, 2011, 5, 137-153.	2.3	83
15	Role of extracellular matrix in vascular remodeling of hypertension. Current Opinion in Nephrology and Hypertension, 2010, 19, 187-194.	1.0	81
16	Mechanisms involved in the cellular calcium homeostasis in vascular smooth muscle: Calcium pumps. Life Sciences, 1998, 64, 279-303.	2.0	78
17	New aspects of vascular remodelling: the involvement of all vascular cell types. Experimental Physiology, 2005, 90, 469-475.	0.9	77
18	The dietary flavonoid quercetin activates BKCa currents in coronary arteries via production of H2O2. Role in vasodilatation. Cardiovascular Research, 2007, 73, 424-431.	1.8	77

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19	New roles for old pathways? A circuitous relationship between reactive oxygen species and cyclo-oxygenase in hypertension. Clinical Science, 2014, 126, 111-121.	1.8	75
20	Hypertension increases the participation of vasoconstrictor prostanoids from cyclooxygenase-2 in phenylephrine responses. Journal of Hypertension, 2005, 23, 767-777.	0.3	73
21	Aging-Associated miR-217 Aggravates Atherosclerosis and Promotes Cardiovascular Dysfunction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2408-2424.	1.1	73
22	Increased Superoxide Anion Production by Interleukin-1Î² Impairs Nitric Oxide-Mediated Relaxation in Resistance Arteries. Journal of Pharmacology and Experimental Therapeutics, 2006, 316, 42-52.	1.3	69
23	G Protein-Coupled Receptor Kinase 2 (GRK2) as a Potential Therapeutic Target in Cardiovascular and Metabolic Diseases. Frontiers in Pharmacology, 2019, 10, 112.	1.6	68
24	Losartan Reduces the Increased Participation of Cyclooxygenase-2-Derived Products in Vascular Responses of Hypertensive Rats. Journal of Pharmacology and Experimental Therapeutics, 2007, 321, 381-388.	1.3	66
25	Adipocyte-Derived Factors Regulate Vascular Smooth Muscle Cells Through Mineralocorticoid and Glucocorticoid Receptors. Hypertension, 2011, 58, 479-488.	1.3	63
26	Wilms Tumor 1b Expression Defines a Pro-regenerative Macrophage Subtype and Is Required for Organ Regeneration in the Zebrafish. Cell Reports, 2019, 28, 1296-1306.e6.	2.9	61
27	Direct demonstration of Î² 1 - and evidence against Î² 2 - and Î² 3 -adrenoceptors, in smooth muscle cells of rat small mesenteric arteries. British Journal of Pharmacology, 2005, 146, 679-691.	2.7	59
28	Alterations in structure and mechanics of resistance arteries from ouabain-induced hypertensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H193-H201.	1.5	59
29	Exercise Training and Cardiometabolic Diseases: Focus on the Vascular System. Current Hypertension Reports, 2013, 15, 204-214.	1.5	57
30	Extracellular Tuning of Mitochondrial Respiration Leads to Aortic Aneurysm. Circulation, 2021, 143, 2091-2109.	1.6	54
31	Peroxisome proliferator-activated receptor-Î³ activation reduces cyclooxygenase-2 expression in vascular smooth muscle cells from hypertensive rats by interfering with oxidative stress. Journal of Hypertension, 2012, 30, 315-326.	0.3	51
32	Vascular smooth muscle cellâ€specific progerin expression in a mouse model of Hutchinsonâ€"Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. Aging Cell, 2019, 18, e12936.	3.0	51
33	Ouabain-induced hypertension is accompanied by increases in endothelial vasodilator factors. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2110-H2118.	1.5	50
34	Mercury induces proliferation and reduces cell size in vascular smooth muscle cells through MAPK, oxidative stress and cyclooxygenase-2 pathways. Toxicology and Applied Pharmacology, 2013, 268, 188-200.	1.3	49
35	Influence of elastin on rat small artery mechanical properties. Experimental Physiology, 2005, 90, 463-468.	0.9	47
36	Influence of hypertension on nitric oxide synthase expression and vascular effects of lipopolysaccharide in rat mesenteric arteries. British Journal of Pharmacology, 2000, 131, 185-194.	2.7	46

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37	Hypertension alters role of iNOS, COX-2, and oxidative stress in bradykinin relaxation impairment after LPS in rat cerebral arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H225-H234.	1.5	45
38	Vascular proinflammatory responses by aldosterone are mediated via c-Src trafficking to cholesterol-rich microdomains: role of PDGFR. Cardiovascular Research, 2011, 91, 720-731.	1.8	45
39	Oxidative Stress in Human Atherothrombosis: Sources, Markers and Therapeutic Targets. International Journal of Molecular Sciences, 2017, 18, 2315.	1.8	45
40	Human Vascular Smooth Muscle Cells From Diabetic Patients Are Resistant to Induced Apoptosis Due to High Bcl-2 Expression. Diabetes, 2006, 55, 1243-1251.	0.3	42
41	Heightened aberrant deposition of hard-wearing elastin in conduit arteries of prehypertensive SHR is associated with increased stiffness and inward remodeling. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H2299-H2307.	1.5	42
42	Increased Nitric Oxide Bioavailability in Adult GRK2 Hemizygous Mice Protects Against Angiotensin IIâ€"Induced Hypertension. Hypertension, 2014, 63, 369-375.	1.3	42
43	Carnitine palmitoyltransferase-1 up-regulation by PPAR-Î²/Î´ prevents lipid-induced endothelial dysfunction. Clinical Science, 2015, 129, 823-837.	1.8	42
44	Apocynin Prevents Vascular Effects Caused by Chronic Exposure to Low Concentrations of Mercury. PLoS ONE, 2013, 8, e55806.	1.1	40
45	Postnatal alterations in elastic fiber organization precede resistance artery narrowing in SHR. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H804-H812.	1.5	39
46	Mechanisms Underlying Hypertrophic Remodeling and Increased Stiffness of Mesenteric Resistance Arteries From Aged Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 696-706.	1.7	39
47	Emerging Roles of Lysyl Oxidases in the Cardiovascular System: New Concepts and Therapeutic Challenges. Biomolecules, 2019, 9, 610.	1.8	39
48	G protein-coupled receptor kinase 2 (GRK2) as an integrative signalling node in the regulation of cardiovascular function and metabolic homeostasis. Cellular Signalling, 2018, 41, 25-32.	1.7	36
49	c-Src, ERK1/2 and Rho kinase mediate hydrogen peroxide-induced vascular contraction in hypertension. Journal of Hypertension, 2015, 33, 77-87.	0.3	35
50	Transient middle cerebral artery occlusion causes different structural, mechanical, and myogenic alterations in normotensive and hypertensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H628-H635.	1.5	34
51	p38 MAPK contributes to angiotensin II-induced COX-2 expression in aortic fibroblasts from normotensive and hypertensive rats. Journal of Hypertension, 2009, 27, 142-154.	0.3	32
52	Differential renal effects of candesartan at high and ultra-high doses in diabetic miceâ€"potential role of the ACE2/AT2R/Mas axis. Bioscience Reports, 2016, 36, .	1.1	32
53	Vascular dysfunction in obese diabetic db/db mice involves the interplay between aldosterone/mineralocorticoid receptor and Rho kinase signaling. Scientific Reports, 2018, 8, 2952.	1.6	32
54	Interleukin-17A induces vascular remodeling of small arteries and blood pressure elevation. Clinical Science, 2020, 134, 513-527.	1.8	31

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55	Mechanisms involved in the early increase of serotonin contraction evoked by endotoxin in rat middle cerebral arteries. British Journal of Pharmacology, 2003, 140, 671-680.	2.7	30
56	mPGES-1 (Microsomal Prostaglandin E Synthase-1) Mediates Vascular Dysfunction in Hypertension Through Oxidative Stress. Hypertension, 2018, 72, 492-502.	1.3	29
57	Alterations of the Nitric Oxide Pathway in Cerebral Arteries from Spontaneously Hypertensive Rats. Journal of Cardiovascular Pharmacology, 2002, 39, 378-388.	0.8	27
58	Small Artery Remodeling in Obesity and Insulin Resistance. Current Vascular Pharmacology, 2014, 12, 427-437.	0.8	27
59	Ageing alters the production of nitric oxide and prostanoids after IL-1Î² exposure in mesenteric resistance arteries. Mechanisms of Ageing and Development, 2005, 126, 710-721.	2.2	26
60	Interleukin-33/ST2 system attenuates aldosterone-induced adipogenesis and inflammation. Molecular and Cellular Endocrinology, 2015, 411, 20-27.	1.6	26
61	Pioglitazone treatment increases COXâ€2â€derived prostacyclin production and reduces oxidative stress in hypertensive rats: role in vascular function. British Journal of Pharmacology, 2012, 166, 1303-1319.	2.7	24
62	Hypertension alters the participation of contractile prostanoids and superoxide anions in lipopolysaccharide effects on small mesenteric arteries. Life Sciences, 2002, 71, 1997-2014.	2.0	23
63	Liver growth factor treatment restores cell-extracellular matrix balance in resistance arteries and improves left ventricular hypertrophy in SHR. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1153-H1165.	1.5	23
64	Role of iNOS in the vasodilator responses induced by L-arginine in the middle cerebral artery from normotensive and hypertensive rats. British Journal of Pharmacology, 1999, 126, 111-120.	2.7	22
65	Hu antigen R is required for NOX-1 but not NOX-4 regulation by inflammatory stimuli in vascular smooth muscle cells. Journal of Hypertension, 2016, 34, 253-265.	0.3	19
66	Pioglitazone Modulates the Vascular Contractility in Hypertension by Interference with ET-1 Pathway. Scientific Reports, 2019, 9, 16461.	1.6	19
67	Interferon-stimulated gene 15 pathway is a novel mediator of endothelial dysfunction and aneurysms development in angiotensin II infused mice through increased oxidative stress. Cardiovascular Research, 2022, 118, 3250-3268.	1.8	18
68	Alterations by Age of Calcium Handling in Rat Resistance Arteries. Journal of Cardiovascular Pharmacology, 2002, 40, 832-840.	0.8	17
69	Temporal relationship between systemic endothelial dysfunction and alterations in erythrocyte function in a murine model of chronic heart failure. Cardiovascular Research, 2022, 118, 2610-2624.	1.8	17
70	Moderate Exercise Decreases Inflammation and Oxidative Stress in Hypertension. Hypertension, 2009, 54, 1206-1208.	1.3	16
71	Activation of BKCa channels by nitric oxide prevents coronary artery endothelial dysfunction in ouabain-induced hypertensive rats. Journal of Hypertension, 2009, 27, 83-91.	0.3	16
72	Changes in plasma oxidative state with age and their influence on contractions elicited by noradrenaline in the rat tail artery. Life Sciences, 1999, 65, 915-924.	2.0	14

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73	High NOR-1 (Neuron-Derived Orphan Receptor 1) Expression Strengthens the Vascular Wall Response to Angiotensin II Leading to Aneurysm Formation in Mice. Hypertension, 2021, 77, 557-570.	1.3	14
74	Nitric oxide synthase induction by ouabain in vascular smooth muscle cells from normotensive and hypertensive rats. Journal of Hypertension, 2000, 18, 877-884.	0.3	13
75	Losartan and tempol treatments normalize the increased response to hydrogen peroxide in resistance arteries from hypertensive rats. Journal of Hypertension, 2009, 27, 1814-1822.	0.3	12
76	Regulator of calcineurin 1 modulates vascular contractility and stiffness through the upregulation of COX-2-derived prostanoids. Pharmacological Research, 2018, 133, 236-249.	3.1	12
77	Cerebrovascular endothelial dysfunction induced by mercury exposure at low concentrations. NeuroToxicology, 2016, 53, 282-289.	1.4	11
78	Periarterial fat from two human vascular beds is not a source of aldosterone to promote vasoconstriction. American Journal of Physiology - Renal Physiology, 2018, 315, F1670-F1682.	1.3	11
79	Ouabain treatment increases nitric oxide bioavailability and decreases superoxide anion production in cerebral vessels. Journal of Hypertension, 2008, 26, 1944-1954.	0.3	10
80	Activation of PPARÎ²/Î´ prevents hyperglycaemia-induced impairment of Kv7 channels and cAMP-mediated relaxation in rat coronary arteries. Clinical Science, 2016, 130, 1823-1836.	1.8	10
81	Molecular physiopathology of obesity-related diseases: multi-organ integration by GRK2. Archives of Physiology and Biochemistry, 2015, 121, 163-177.	1.0	9
82	CCN2 (Cellular Communication Network Factor 2) Deletion Alters Vascular Integrity and Function Predisposing to Aneurysm Formation. Hypertension, 2022, 79, e42-e55.	1.3	9
83	Isolation of Mature Adipocytes from White Adipose Tissue and Gene Expression Studies by Real-Time Quantitative RT-PCR. Methods in Molecular Biology, 2017, 1527, 283-295.	0.4	8
84	Characterization of Novel Synthetic Polyphenols: Validation of Antioxidant and Vasculoprotective Activities. Antioxidants, 2020, 9, 787.	2.2	7
85	Specialized Pro-Resolving Lipid Mediators: New Therapeutic Approaches for Vascular Remodeling. International Journal of Molecular Sciences, 2022, 23, 3592.	1.8	7
86	La sobreexpresiÃ³n vascular de la lisil oxidasa altera la estructura de la matriz extracelular e induce estrÃ©s oxidativo. ClÃnica E InvestigaciÃ³n En Arteriosclerosis, 2017, 29, 157-165.	0.4	6
87	Microsomal prostaglandin E synthaseâ€1 is involved in the metabolic and cardiovascular alterations associated with obesity. British Journal of Pharmacology, 2022, 179, 2733-2753.	2.7	6
88	Hypothyroidism confers tolerance to cerebral malaria. Science Advances, 2022, 8, eabj7110.	4.7	5
89	Vascular lysyl oxidase over-expression alters extracellular matrix structure and induces oxidative stress. ClÃnica E InvestigaciÃ³n En Arteriosclerosis (English Edition), 2017, 29, 157-165.	0.1	3
90	Aldosterone/MR Signaling, Oxidative Stress, and Vascular Dysfunction. , 2019, , .		3

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91	Myeloid GRK2 Regulates Obesity-Induced Endothelial Dysfunction by Modulating Inflammatory Responses in Perivascular Adipose Tissue. Antioxidants, 2020, 9, 953.	2.2	3
92	K V 1.3 channels are novel determinants of macrophageâ€dependent endothelial dysfunction in angiotensin IIâ€induced hypertension in mice. British Journal of Pharmacology, 2021, 178, 1836-1854.	2.7	3
93	Confocal microscopic image sequence compression using vector quantization and threeâ€dimensional pyramid. Scanning, 2003, 25, 247-256.	0.7	1
94	Report on the 24th meeting of the ECCR 8th-9th October 2021. Clinical Science, 2021, 135, 1-1.	0.0	0